磷酸化丝裂原活化蛋白激酶磷酸酶-1 抗体

产品货号： mlR3278

英文名称： Phospho-MKP1 (Ser359)

中文名称： 磷酸化丝裂原活化蛋白激酶磷酸酶-1 抗体

别　　名： DUSP1 (phospho S359); DUSP1; Mitogen activated protein kinase phosphatase 1; CL 100; CL100; Dual Specificity Phosphatase 1; Dual specificity protein phosphatase 1; Dual specificity protein phosphatase hVH1; DUSP 1; DUSP-1; EC 3.1.3.16; EC 3.1.3.48; HVH 1; HVH1; MAP kinase phosphatase 1; MKP 1; MKP1; MKP-1; Protein tyrosine phosphatase CL100; PTPN 10; PTPN10; Serine/threonine specific protein phosphatase; VH 1; VH1; 3ch134; Mkp1; Ptpn16.

产品类型： 磷酸化抗体

研究领域： 肿瘤　免疫学　信号转导　细胞凋亡　转录调节因子　激酶和磷酸酶

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Rat, Chicken, Dog, Pig, Cow, Rabbit,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 40kDa

细胞定位： 细胞核

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原： KLH conjugated synthesised phosphopeptide derived from human MKP1 around the phosphorylation site of Ser359:LQ(p-S)PI

亚　　型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed： PubMed

产品介绍： The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacterially expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inactivates mitogen-activated protein (MAP) kinase in vitro by the concomitant dephosphorylation of both its phosphothreonine and phosphotyrosine residues.

Function:

Dual specificity phosphatase that dephosphorylates MAP kinase ERK2 on both 'Thr-183' and 'Tyr-185'.

Tissue Specificity:

Expressed at high levels in the lung, liver placenta and pancreas. Moderate levels seen in the heart and skeletal muscle. Lower levels found in the brain and kidney.

Similarity:

Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.

Contains 1 rhodanese domain.

Contains 1 tyrosine-protein phosphatase domain.

SWISS:

P28562

Gene ID:

1843

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

MKPs 是一类丝氨酸/苏氨酸和酪氨酸双重底物特异性的磷酸酶 ,对于丝裂素活化蛋白激酶活性的调节起着十分重要的作用，可使丝裂素活化蛋白激酶上的苏氨酸/酪氨酸去磷酸化失活。目前研究发现 MKPs 分别有 MKP-1、MKP-2、MKP-3 及 MKP4-6。

MKPs 受 MAPK 信号通路中多种成分的诱导 ,决定了它与 MAPK 之间作用的特异性。 通过去磷酸化作用调节 MAPK 信号途径的活性 ,确保了细胞内信号的精确传递 ,参与了多种主要的细胞功能的调节。